

WHAT IS CLAIMED IS:

1. A cask comprising:

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a basket having square shaped cross section, wherein
cutting sections are provided in both edges of rectangular
5 plate-like members having a neutron absorbing performance
and said plate-like members are alternately piled up
vertically in such a manner as to mutually insert said cutting
sections to each other;

a barrel main body which shields γ rays and forms an
10 inner side of a cavity in a shape aligning with said basket;
and

a neutron shielding body arranged in an outer periphery
of said barrel main body,

wherein a spent fuel assembly is stored in each of
15 cells of the basket inserted in said cavity.

2. The cask according to claim 1, wherein a part within
said cavity is formed in a shape aligning with the outer
shape of said basket.

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3. The cask according to claim 1, wherein a dummy pipe
is further provided, a portion having a surplus thickness
of the barrel main body within said cavity is aligned with
said dummy pipe, and said dummy pipe is inserted within the
25 cavity together with the basket in a state of being in contact

with said plate-like member.

4. The cask according to claim 3, wherein both ends of said dummy pipe are further closed.

5. The cask according to claim 4, wherein a heat conduction medium such as a helium gas or the like is sealed within the dummy pipe having both ends closed.

10 6. A cask comprising:

a basket having square shaped cross section, wherein a plurality of cells having a neutron absorbing performance and storing spent fuel assemblies are integrally cast;

15 a barrel main body which shields γ rays and forms an inner side of a cavity in a shape aligning with said basket; and

a neutron shielding body arranged in an outer periphery of said barrel main body,

20 wherein a spent fuel assembly is stored in each of cells of the basket inserted in said cavity.

7. The cask according to claim 6, wherein a part within said cavity is formed in a shape aligning with the outer shape of said basket.

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8. . The cask according to claim 7, wherein a dummy pipe is further provided, a portion having a surplus thickness of the barrel main body within said cavity is aligned with said dummy pipe, and said dummy pipe is inserted within the
5 cavity together with the basket in a state of being in contact with said plate-like member.

9. The cask according to claim 8, wherein both ends of said dummy pipe are further closed.

10 10. The cask according to claim 9, wherein a heat conduction medium such as a helium gas or the like is sealed within the dummy pipe having both ends closed.

15 11. A cask wherein an inner side of a cavity in a barrel main body having a neutron shielding body in an outer periphery and shielding γ rays is formed in a shape corresponding to an outer shape of a basket having a square cross sectional shape constituted by a plurality of square
20 pipes having a neutron absorbing performance in a state of inserting the square pipes within the cavity, a hollow dummy pipe having both ends closed is provided, a portion having a surplus thickness of the barrel main body within said cavity is formed in a shape corresponding to said dummy pipe, said
25 dummy pipe is inserted within the cavity together with the

basket in a state of being in contact with said square pipe,
and a spent fuel assembly is received and stored within each
of cells of the basket inserted within said cavity.

- 5 12. The cask according to claim 11, wherein a heat
conduction medium such as a helium gas or the like is sealed
within the dummy pipe having both ends closed.

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